

Knollwood Energy of MA LLC P.O. Box 30 Chester, New Jersey 07930

MHPUC 21NOV 14pm 11:91

November 14, 2014

Debra A. Howland Executive Director New Hampshire Public Utilities Commission 21 South Fruit Street, Suite 10 Concord, NH 03301-2429

Dear Ms Howland,

Enclosed please find the application for the Arthea Zandstra system to be part of the Knollwood Energy of MA LLC (NH-II-13-089) Class II Photovoltaic aggregation for New Hampshire Renewable Energy Certificates (RECs) generated from customer-sited sources, pursuant to New Hampshire Code of Administrative Rules Puc 2506.

Customer and Facility Information
Arthea Zandstra
270 Meadorboro Road
Farmington, NH
603.321.4729
jay.lawrie13@gmail.com

The Nepool GIS ID # for this facility is: NON44465. Also enclosed are the Simplified Process Interconnection Application and Service Agreement and the Certificate of Completion for Simplified Process Interconnections. An electronic version has been sent to executive.director@puc.nh.gov.

Please do not hesitate to contact me if you have any questions regarding this application.

Thank you for your consideration,

Linda Modica
New England REC Operations Manager *Knollwood Energy of MA LLC*908-955-0590
linda@knollwoodenergy.com

Enclosures (3)



State of New Hampshire Public Utilities Commission



21 S. Fruit Street, Suite 10, Concord, NH 03301-2429

DRAFT APPLICATION FORM FOR RENEWABLE ENERGY CERTIFICATE (REC) ELIGIBILITYFOR CLASS I AND CLASS II SOURCES WITH A CAPACITY OF 100 KILOWATTS OR LESS

Pursuant to New Hampshire Administrative Code Puc 2500 Rules including Puc 2505.08, Certification of Certain Customer-Sited Sources

- Please submit one (1) original and two (2) paper copies of the completed application and cover letter* to:
 Debra A. Howland, Executive Director, New Hampshire Public Utilities Commission

 21 South Fruit Street, Suite 10, Concord, NH 03301-2429
- Send an electronic version of the completed application and the cover letter electronically to executive.director@puc.nh.gov.
- The cover letter must include complete contact information and identify the renewable energy class for which the applicant seeks eligibility. Pursuant to Puc 2505.01, the Commission is required to render a decision on an application within 45 days of receiving a completed application.

If you have any questions please contact Barbara Bernstein at (603) 271-6011 or Barbara.Bernstein@puc.nh.gov.

Photovoltaic (PV) solar facilities are Class II resources.	Contact Barbara.Bernstein@puc.nh.gov for assistance.
Eligibility Requested for: Class I Class II	Check here X if this facility part of an aggregation.
If the facility is part of an aggregation, please list the aggr	egator's name. Knollwood Energy of MA
 Provide the following information for the owner of the 	e PV system.
Applicant Name Arthea Zandstra	Email jay.lawrie13@gmail.com
Address 270 Meaderboro Road	City Farmington State NH Zip 03835
Telephone 603.312.4729	Cell
information).	contact information (if different than applicant contact
Address	City State Zip
Telephone	Cell
Email address:	

Provide a complete list of the equipment used at the facility, including the revenue grade REC meter, and, if applicable, the inverter. Your facility will not qualify for RECs without a REC meter.

equipment	quantity	Туре	equipment	quantity	Туре			
PV panels	27	2Power 11M1000 Mono Black	other					
Inverter	16	APS YC 500 A	other					
meter	1	Schlumberger Centron Vision	other					
A copy of the interconnection agreement and the approval to operate your PV system from your electric utility must be included with your application. For PSNH customers, both the Simplified Process Interconnection Application and Exhibit B - Certificate of Completion are required. What is the nameplate capacity of your facility (found on your interconnection agreement)? 8.0 AC								
		ial date of operation (the date your u					AC /2/14	**************************************
Provide the name, license number and contact information of the installer, or indicate that the equipment was installed directly by the customer.								
Installer Name Seacoast Energy Alternatives Contact Jack Bingham applicable) n/a								
Address	РО ВО	X 738	City Bar	rington	Si	N tate: <u>H</u>	_ Zip	03825
Telephone 603.973.9798 email jack@seacoastenergy.com								
If the eq	uipment v	vas installed directly by the customer,	please cł	neck here:				
Provide	the name	and contact information of the equi	pment ve	ndor.				
Check here if the installer provided the equipment and proceed to the next question.								
Business Name Sundeavor Logistics Contact								
Address	PO BO	OX 277	City P	roctorsvill	e Stat	e <u>VT</u>	_ Zip _	05153
Telephone 802.226.7700 email scott@sundeavor.com If an independent electrician was used, please provide the following information. (Sunray corporate electrician)								
Electricia	an's Name	Jeff Newsky		Licer	nse # M89	80		

Business Name Newsky Electrical Contracting Email jnewskycontracting@yahoo.com

Address	89 Little	worth Rd		City	Dover		State	NH	Zip	03820
Provide the name of the independent monitor for this facility. (A <u>list</u> of approved independent monitors is available at http://www.puc.nh.gov/Sustainable%20Energy/Renewable_Energy_Source_Eligibility.htm .)										
Independe	ent Monito	r's Name Pau	l Button Energy	Audit	s Unlimited	<u> </u>				
			state's renewabl tification as <i>Atta</i>	-		ard? yes		no [□x	
 Please note, if your facility is part of an aggregation, your aggregator should provide you with the following information. In order to qualify your facility's electrical production for Renewable Energy Certificates (RECs), you must register with the NEPOOL – GIS. Contact information for the GIS administrator follows: 										
				s Web						
			Administrator, A							
		-	oort Parkway, Sui							
If you are n	at part of		ce: 408.517.2174		jwebb@ap					
ii you are r	ot part or	an aggregation,	Mr. Webb will as	sist yo	ou in obtair	iing a GiS taci	ity code	•		
GIS Facility	Code #	NON44465		A	sset ID#	NON4446	5	Million and Consultation and Consultation and		
in conform or provide	nance wit a separa	h any applicat te document.	icant or qualificate of the state of the sta	uildii	ng codes.	Use either				
AFFIDAVIT	Γ									
in conform	The Undersigned applicant declares under penalty of perjury that the project is installed and operating in conformance with all applicable building codes.									
Applicant's	Signature	ula	se of	M	114	Date		[[]	18/	2014
Applicant's	Printed Na	nme Alane La	kritz			20		/	/	
Subscribed	and sworn	before me this	18	_ Day	of Nove	mber (mo	onth) in t	he yea	. 9	014
County of		000		S	tate of _	New	Jerse	eg		
	å	MINING BURGA	111111		Du	ban Lo	Beuch	In .		
	Shin	PROMM. EXA	Paris		Notary P	ublic/Justice o	of the Pe	ace		
	200	OTARY	DI			1 -				
	BA B	My-Eom	mission Expires	-	2/16	111				
	216181	PUBLIN) a Pa	ge 3 of	f 4	•				
	HAR	MY-EOM BURGA PROMINERA MY-EOM BBBUARY 18-28-38 MEN JER	Engine P.	18C 3 01	. 7					
		-44499999999 7899								

• Complete the following checklist. If you have questions, contact barbara.bernstein@puc.nh.gov.

CHECK LIST: The following has been included to complete the application:	YES
All contact information has been provided.	Х
 A copy of the interconnection agreement. PSNH Customers should include both the Interconnection Standards for Inverters Sized up to 100 KVA and Exhibit B – Certification of Completion for Simplified Process Interconnection. 	x
 Documentation of the distribution utility's approval of the installation.* 	х
 If the facility is participating in another state's renewable portfolio standard (RPS) program, documentation of certification in other state's RPS. 	
A signed and notarized attestation.	х
A GIS number obtained from the GIS Administrator.	х
The document has been printed and notarized.	х
 The original and 2 copies are included in the packet mailed to Debra Howland, Executive Director of the PUC. 	х
 An electronic version of the completed application has been sent to executive.director@puc.nh.gov. 	х
*Usually included in the interconnection agreement.	

• If the application has been prepared by someone other than the applicant, complete the following. If the application was prepared by the applicant, check here

and skip this section.

PREPARER'S INFORMATION

Preparer's Name Linda Modica			Email address: linda@knollwoodenergy.com					
Address Po	O Box 30		City _ Ches	iter	State	NJ	Zip	07930
Telephone	908.955.059)	Cell					0,000,000,000,000
Preparer's Sig	gnature:							
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RECEIVED OCT 1 4 2014

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE INTERCONNECTION STANDARDS FOR INVERTERS SIZED UP TO 100 KVA

Simplified Process Interconnection Application and Service Agreement

greement SESD

		P	SNH Application Project	ID#:	N3196
Contact Information:					
Legal Name and Address of Interconnecting (- Tuotama	r (or Com			
Customer or Company Name (print): Arthea	ZanStra	ir (or, Com L	pany name, n appropriate	[;] }	•
Contact Person, if Company: 270 Meadorb	oro Roa	ď	· · · · · · · · · · · · · · · · · · ·		any dia manganja ka kao anin'ny mandra ny aora-ao amin'ny aora-ao amin'ny aora-ao amin'ny ao amin'ny ao amin'n
Mailing Address:			ed to great a resistance about a superior and a sup	······································	
City: Farmington	Centar	NH		72 (2 1	03835
202 221 122				-	
Facsimile Number:			(Evening):		
a dosimila Number.	***************************************	E	-Man Address: Jaynam	c roogman.	
Alternative Contact Information (e.g., Systematical Contact Informatical Contact Informatica Contact Informatical Contact Informatical Contact Informatical C	ars Imoto	Hatian ann	trantas as appellenting		
Name: Mailing Address:				**********	
City:				Tin Cada	
Telephone (Daytime):					
Facsimile Number:					
		L.	AMAII Addiess.		
Electrical Contractor Contact Information	lif anns	onrista):			
Name: Jack Bingham Seacoast Energy Alte	matives	opriatoj.	.`		
Mailing Address: P.O. Box 738			·		
City: Barrington	State-	NH		Zin Cada:	03825
Telephone (Daytime): 603-973-9798	William.		(Evening)	- Zap Code.	*
Facsimile Number:		F	-Mail Address: jack@se	acoastener	av.com
	***********		THE PERSONS		
Facility Site Information:				,	
Facility (Site) Address:					
City:			IH	Zin Code	****
Electric				zip coue,	
Service Company: PSNH	Accoun	t Number	56910295047	Meter Nur	sher: \$64580466
Account and Meter Number: Please consult an					
on this application. If the facility is to be instal	lled in a	new locati	ion, please provide the PS	NH Work R	equest number.
					•
PSNH Work Request#			27(11-14-14)		
Non-Default' Service Customers Only:				•	
Competitive Electric					
Energy Supply Company:			Account	Number:	
(Customer's with a Competitive Energy Supply	y Compo				
Supply Company.)			yy		

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE INTERCONNECTION STANDARDS FOR INVERTERS SIZED UP TO 100 KVA

Simplified Process Interconnection Application and Service Agreement

	Facility Machine Information:
	Generator/ Model Name &
	Inverter Manufacturer: Number: YE SOUA Quantity: 31 V
	Nameplate Rating: (kW) \(\frac{\text{V}}{\text{V}} \) \(\frac{\text{V}}{\text{V}} \) (AC Volts) \(\text{Phase: Single \(\text{V} \) Three \(\text{T} \)
·	Nameplate Rating: The AC Nameplate rating of the individual inverter.
· 1,5	System Design Capacity: 80 (kW) 5 (kVA) Battery Backup: Yes No
AC	System Design Capacity: The system total of the inverter AC ratings. If there are multiple inverters installed in the system, this is the sum of the AC nameplate ratings of all inverters.
	Net Metering: If Renewably Fueled, will the account be Net Metered? Yes No
	Prime Mover: Photovoltaic Reciprocating Engine Fuel Cell Turbine Other
	Energy Source: Solar Wind Hydro Diesel Natural Gas Fuel Oil Other
	Inverter-based Generating Facilities:
	UL 1741 / IEEE 1547.1 Compliant (Refer To Part Puc 906 Compliance Path For Inverter Units, Part Puc 906.01 Inverter Requirements) Yes No
	The standard UL 1741.1 dated May, 2007 or later, "Inverters, Converters, and Controllers for Use With Independent Power
	Systems," addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers choose to submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL 1741.1. This
	term "Listed" is then marked on the equipment and supporting documentation. Please include, any documentation
	External Manual Disconnect Switch: On External Manual Disconnect Switch shall be installed in accordance with 'Part Puc 905 Technical Requirements For Literconnections For Facilities, Puc 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.'
,	DAn External Manual Disconnect Switch shall be installed in accordance with 'Part Puc 905 Technical Requirements For
ek Ruike	Interconnections For Facilities, Puc 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.
De Quill	THE PROPOSED STEED OF
20 psm	
e'	YOU ARE REQUIRED TO INSTALL AM EXTERN
-	Project Estimated Install Date: ## Project Estimated in-Service Date: ## Project Estimated in-Service Date: ## 1885 1986
	Interconnecting Customer Signature:
	I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the Terms
	and Conditions for Simplified Process Interconnections attached hereto:
	Customer Signature: While Little: OWNEY Date 0/13/14
	Please include a one-line and/or three-line diagram of proposed installation. Diagram must indicate the generator connection
	point in relation to the customer service papel and the PSNH meter socket. Applications without such a diagram may be returned.
	TOTAL TELE
	For PSNH Use Only
	Approval to Install Facility:
	Installation of the Facility is approved contingent upon the Terms and Conditions For Simplified Process Interconnections of this
	Agreement, and agreement to any system modifications, if required.
	Are system modifications required? Yes No Determined
	Company Signature: Muhauf Motton Title: SR. ENGINEER Date: 10-15-14
	PSNH SPIA rev. 03/14 Page 2 of 3

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE INTERCONNECTION STANDARDS FOR INVERTERS SIZED UP TO 100 KVA

Terms and Conditions for Simplified Process Interconnections

Company waives inspection/Witness Test:	Yes No 🗆	Date of inspection/Witness Test:	

- Construction of the Facility. The Interconnecting Customer may proceed to construct the Facility in compliance with the specifications of its
 Application once the Approval to Install the Facility has been signed by the Company. Such Approval relates only to the PSNH and Puc 900
 electrical interconnection requirements, and does not convey any permissions or rights associated with permits, code enforcement, easements,
 rights of way, set back, or other physical construction issues.
- Interconnection and operation. The Interconnecting Customer may operate Facility and interconnect with the Company's system once the all of the following has occurred:
 - 2.1. Municipal Inspection. Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified by the local electrical wiring inspector with jurisdiction.
 - 2.2. Certificate of Completion. The Interconnecting Customer returns the Certificate of Completion to the Agreement to the Company at address noted.
 - 2.3. Company has completed or waived the right to inspection.
- 3. Company Right of Inspection. The Company will make every attempt within ten (10) business days after receipt of the Certificate of Completion, and upon reasonable notice and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the Interconnection Standard. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. All projects larger than 10 kVA will be witness tested, unless waived by the Company.
- 4. Safe Operations and Maintenance. The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
- 5. Disconnection. The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.
- 6. Metering and Billing. All renewable Facilities approved under this Agreement that qualify for net metering, as approved by the Commission from time to time, and the following is necessary to implement the net metering provisions:
 - 6.1. Interconnecting Customer Provides: The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards. In some cases the Interconnecting Customer may be required to install a separate telephone line.
 - 6.2. Company Installs Meter. The Company will make every attempt to furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion if inspection is waived, or within 10 business days after the inspection is completed, if such meter is not already in place.
- 7. Indemnification. Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of, or are in any manner connected with, the performance of this Agreement by that party, except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the party seeking indemnification.
- 8. Limitation of Liability. Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
- 9. Termination. This Agreement may be terminated under the following conditions:
 - 9.1. By Mutual Agreement. The Parties agree in writing to terminate the Agreement.
 - 9.2. By Interconnecting Customer. The Interconnecting Customer may terminate this Agreement by providing written notice to Company.
 - 9.3. By Company. The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, or (2) in the event that the Facility impairs or, in the good faith judgment of the Company, may imminently impair the operation of the electric distribution system or service to other customers or materially impairs the local circuit and the Interconnecting Customer does not cure the impairment.
- 10. Assignment/Transfer of Ownership of the Facility. This Agreement shall survive the transfer of ownership of the Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.
- 11. Interconnection Standard. These Terms and Conditions are pursuant to the Company's "Interconnection Standards for Inverters Sized Up to 100 kVA" for the Interconnection of Customer-Owned Generating Facilities, as approved by the Commission and as the same may be amended from time to time ("Interconnection Standard"). All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Standard (see Company's website for the complete document).

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE INTERCONNECTION STANDARDS FOR INVERTERS SIZED UP TO 100 KVA (Continued)

NOV 0 5 2014

SESD

Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information:	☐ Check if owner-inst	alled
Customer or Company Name (print): Arthea	Zandstra	
Contact Person, if Company:		
Mailing Address: 270 Meaderboro		
City: Farmington	State:NH	Zip Code:03835
Telephone (Daytime): 603-312-4729		
Facsimile Number:	_ E-Mail Address:az	andstra@metrocast.net
Address of Facility (if different from above):		
City:	State:	Zip Code:
Generation Vendor: Seacoast Energy Alte I herby certify that the system hardware is in complication.		: Jack Bingham
Vendor Signature:		Date: 10/27/14
Electrical Contractor's Name (if appropriate): N		ontracting
City: Dover		Zip Code: 03820
Telephone (Daytime): (603) 834-3293		
Facsimile Number:		
License number: M8979		, , , , , , , , , , , , , , , , , , , ,
Date of approval to install Facility granted by the Co		Installation Date:
Application ID number: N3196		
Inspection:		
The system has been installed and inspected in comp	liance with the Jocal Build	
City/County)		<u>(b.)</u>
Signed (Local Electrical Wiring Inspector, or attach	signed electrical inspectio	5 H Kape Dem
Name (printed): DENN) S. P. ROSS	EDERRY	
Date: 10-28-14		
Customer Certification:		
I hereby certify that, to the best of my knowledge, al correct. This system has been installed and shall be initial start up test required by Fuc 905/04 has been s	operated in compliance wi	ith applicable electrical standards. Also, the
Customer Signature:	Je-	Date: